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memorandum

Technology Transfer Division

ARPA-E Call for Energy R&D

As part of DOE's stimulus funding scope, the Advanced Research Projects Agency-Energy (ARPA-E) has released a Funding Opportunity Announcement (FOA) for projects that have the potential to create technology breakthroughs in how energy is produced, transmitted, used, and stored.

Concept papers may be submitted from 8:00 a.m. EDT May 12 to 8:00 p.m. EDT June 2, 2009.

TT Division is leading LANL's response to this call in coordination with the Laboratory's Stimulus Project Office. You are encouraged to submit a brief email outlining your project idea to arpa-e@lanl.gov between Wednesday, May 6 and COB Wednesday, May 13. In your email please provide

- Description of the idea or technology and how the project will address ARPA-E's mission
- Listing of key LANL personnel and organization.
- Name and contact information for your partner company or university, or potential partner, and statement of their readiness to lead the project and provide cost sharing.
- Laboratory intellectual property applicable to the project (patent, patent application, IDEA submission, software copyright, etc.), if any.

A small TT Stimulus Focus Group will review project ideas and support development and coordination of final concept papers to be submitted to DOE. Partner companies and universities must submit concept papers through FedConnect.

TT will hold a Town Hall meeting on **Tuesday, May 5**, from 3:00 to 4:30 p.m. in the **MSL Auditorium** (TA-3, Bldg. 1698, Room A103) to discuss the FOA, eligibility requirements, and submission. TT is working with the Stimulus Project Office to develop more information, provide appropriate communication channels, and feedback. Please check this web site periodically for updates.

Email your project ideas to arpa-e@lanl.gov.

Eligibility requirements for the FOA are summarized below:

1. Proposals must be led by a partner company or university. LANL can participate *only* as a member of a team and provide no more than 50% of the total effort, as measured by total project cost.
2. Applicants must be able to share a minimum of 20% of the cost of the project.
3. Projects must be completed within 24 months (preferred) to 36 months of the start date. Total project cost must be between \$500,000 and \$5 million.
4. The scope of work performed by LANL (as measured by total project cost) cannot be greater than the scope of work performed by the Applicant, or in the case of a team project, by the rest of the team.
5. Projects must support the ARPA-E mission of

- a. Enhancing U.S. economic and energy security through development of energy technologies that
 - i. Reduce greenhouse gas emissions
 - ii. Reduce dependence on foreign sources of energy
 - iii. Improve energy efficiency
 - b. Ensuring the U.S. maintains technological lead in developing and deploying energy technology.
6. Projects can address early- or late-stage technology as defined below. Generally, technology between Technology Readiness Levels 2 (Concept and application formulated, but application is speculative and there is no proof or detailed analysis) and TRL-7 (Prototype demonstrated in an operating environment) would be appropriate.
 - **Early-stage:** Take discovery/invention and determine through applied research (1) if it can be made sufficiently robust for real-world application; and (2) if its real-world performance is sufficient to eventually transition to industry use.
 - **Late-stage:** Reduce tech risk low enough for industry to invest in development and deployment
7. LANL's portion of the work must be submitted through the DOE Field Work Proposal system. LANL will receive funds directly from DOE.
8. Proposal Submission: Applicants are required to submit a concept paper as the first step of the application process. Concept papers will be reviewed and applicants will be invited to submit full proposals. The requirements of the concept paper and full proposal are described in the FOA. Key dates are
 - Concept paper opening date: 5/12/09 at 8:00 a.m. EDT
 - Concept paper closing date: 6/2/09 at 8:00 p.m. EDT
 - Expected latest date to request full proposals: 7/13/09
9. The FOA is published on the ARPA-E website at <http://arpa-e.energy.gov/keydocs/ARPA-E-FOA.pdf>.
10. For additional information about ARPA-E, please visit <http://arpa-e.energy.gov/index.html>.